

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/014308

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F27D19/00 F27D23/02 F27B9/30 F27B9/40 B21B28/04  
C03B35/16 B65G13/02 B65G43/08 F27B9/24

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F27D F27B B21B C03B B65G B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 157 925 A (SIEMENS AKTIENGESELLSCHAFT; SIEMENS AKTIENGESELLSCHAFT BERLIN UND MUNC) 16 October 1985 (1985-10-16) page 1, line 9 - line 14 page 8, line 32 - line 35 page 10, line 16 - line 23 claim 1 figures 1,2	1,2
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 286731 A (NIPPON STEEL CORP), 19 October 1999 (1999-10-19) abstract	1,2

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "Z" document member of the same patent family

Date of the actual completion of the International search

14 July 2005

Date of mailing of the International search report

21/07/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 767 438 A (BATES ET AL)  30 August 1988 (1988-08-30)  the whole document</p>	1,2

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/EP2004/014308

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0157925	A	16-10-1985	DE 3410066 A1 AT 33571 T DE 3470473 D1 EP 0157925 A1	26-09-1985 15-05-1988 26-05-1988 16-10-1985
JP 11286731	A	19-10-1999	JP 3588414 B2	10-11-2004
US 4767438	A	30-08-1988	NONE	